



**Reply to:** Dragan Curcija  
University of Massachusetts  
Center for Energy Efficiency & Renewable Energy  
Engineering Laboratory Building  
Amherst, MA 01003-2210

**ASHRAE TC 4.5: Fenestration; Handbook Subcommittee**

**MINUTES:**

**Meeting: Atlanta – January 30, 2001; 10:00 a.m. - 12:00 p.m.**

**Attendance:**

No.	Name	Affiliation	Member	No.	Name	Affiliation	Member
1	Sue Reilly	Enermodal		9	Joe Klems	LBNL	✓
2	Mahabir Bhandari	Umass		10	Ross McCluney	FSEC	✓
3	Dragan Curcija	Umass	✓	11	Alex McGowan	Levellton Eng	
4	William duPont	LBNL	✓	12	Bipin Shah	NFRC	✓
5	Hakim Elmahdy	NRC/Canada	✓	13	David Tait	Tait Solar/ASU	✓
6	Mike Collins	Queen's Univ.		14	Sam Taylor	U.S. DOE	
7	Dick Edwards	Celotex	✓	15	Gabriela Celvarez	CENIDET	
8.	Christian Kohler	LBNL			Stan Gatland	Certainfeed	

Meeting was opened by D. Curcija at 8:20 a.m. and introductions were made.

Motion to approve minutes was proposed by Willian DuPont and seconded by Christian Kohler.

Chairman D. Curcija updated on the status of the revisions to the Chapter 29. The discussion on the status of revisions followed. David Tait will provide the conversion of SC by tomorrow.

Joe Klems will send better way of presenting the text on solar heat gain calculation.

Willie DuPont suggested that in eqn of calculating hour angle- h should be kept in decimal hours instead of minutes and it was approved.

Table 7a will be retained and Willie DuPont suggested Julian date eqn will be removed. Ross agreed to that.

Willie DuPont will check solar radiation eqn and send it back to the group.

In Table 11 angle  $80^0$  will be added. If it is not completed by Sue, it can be kept as it is for the time being and a note to ASHRAE will be send for leaving a few blank pages to accommodate the table.



David Tait will provide revised tables Table 24-29 by tomorrow.

Table 14 will be dropped and sentence referring it in the text will be deleted.

Revision of Table 8 will be postponed for the next revision of the chapter. Chapter 32 & Load calculation Manual will be considered. It will be further discussed in next meeting when all groups are together.

Willie DuPont suggested that Joe resubmit correct version of Table 23 and Joe agreed to do that.

Ross pointed out changes in eqn 22.

Hakim suggested that the eqns related to Condensation Resistance be removed from the next and reference made to NFRC500. Chair has suggested to leave in simple form of equation and delete the rest and revise text to reflect this. Alex suggested to check if that would be final form of equation (i.e., there would not be any changes in the near future).

Dragan Curcija will make note to ASHRAE regarding the confusion in notation in nomenclature regarding  $A$ ,  $\mathbf{A}$ ,  $\bar{w}$  and few more notations.

Peter asked for clarification on the accuracy of eqn 34 for SHGC for frames.

Peter also suggested that consistent units (IP units) should be used throughout the text.

Meeting was adjourned at 12:00 p.m.

